

CLEAN VERSION OF PENDING CLAIMS

1. (Twice Amended) An integrated circuit with a micromechanical element comprising a semiconductor support substrate supporting a sensor element, a logic circuit and a semiconductor visual display element, the sensor element electrically connected to the logic circuit, and the logic circuit being electrically connected to the semiconductor visual display element.
2. The integrated circuit of claim 1 wherein said semiconductor display element comprises an array of light-emitting pn junctions.
3. The integrated circuit of claim 2 wherein said light-emitting pn junctions comprise GaAs light-emitting pn junctions.
4. (Twice Amended) The integrated circuit of claim 1 wherein said visual display element comprises an array of semiconductor pixels having pitch dimensions of less than 20 micrometers.
5. (Twice Amended) The integrated circuit of claim 2 wherein said visual display element comprises an array of semiconductor pixels having pitch dimensions of less than 20 micrometers.
6. (Twice Amended) The integrated circuit of claim 3 wherein said visual display element comprises an array of semiconductor pixels having pitch dimensions of less than 20 micrometers.
7. The integrated circuit of claim 1 wherein said sensor element is selected from the group consisting of strain gauges, thermal gauges, radiation gauges, and chemically responsive gauges.